

# United States Patent and Trademark Office





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/826,973	04/05/2001	Gary T. Seim	279.363US1	4123
21186	7590 01/14/2004		EXAMINER	
	MAN, LUNDBERG, WO	MANUEL, GEORGE C		
P.O. BOX 29	938			
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			3762	

DATE MAILED: 01/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applica	ation No.	Applicant(s)	U			
		09/826		SEIM, GARY T.				
		Examir	r	Art Unit				
			Manuel	3762				
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	the cov rsh etw	th the correspond nce address				
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm e period for reply specified above is less than thirty (3 D period for reply is specified above, the maximum stare to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no nunication. 0) days, a reply within the s atutory period will apply and will, by statute, cause the a	event, however, may a i statutory minimum of thir d will expire SIX (6) MON application to become Ab	eply be timely filed  by (30) days will be considered timely.  ITHS from the mailing date of this communication  ANDONED (35 U.S.C. § 133).	٦.			
1)⊠	Responsive to communication(s) file	ed on <u>20 October 2</u>	<u>003</u> .					
2a) <u></u> ☐	This action is <b>FINAL</b> .	2b)⊠ This action is	non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)⊠ 6)⊠ 7)⊠	<ul> <li>4)  Claim(s) 1-20 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 11-20 is/are allowed.</li> <li>6)  Claim(s) 1-4,9 and 10 is/are rejected.</li> <li>7)  Claim(s) 5-8 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
,	ion Papers		- "					
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any objected to the control of t	: a) accepted or ction to the drawing(so the correction is req	s) be held in abeya uired if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d	d).			
Priority	under 35 U.S.C. §§ 119 and 120							
a) 13)□ / 3 3 14)□ /	Acknowledgment is made of a claim  All b) Some * c) None of:  1. Certified copies of the priority  2. Certified copies of the priority  3. Copies of the certified copies application from the Internation See the attached detailed Office action Acknowledgment is made of a claim from the since a specific reference was included TOFR 1.78.  A) The translation of the foreign land Acknowledgment is made of a claim freference was included in the first sen	documents have be documents have be of the priority document Bureau (PCT For for a list of the color domestic priority and in the first senter or domestic priority or domestic priority or domestic priority or domestic priority	een received. een received in A ments have been Rule 17.2(a)). ertified copies not under 35 U.S.C. ace of the specific application has b under 35 U.S.C.	application No received in this National Stage received. § 119(e) (to a provisional applicat ation or in an Application Data Sheen received. §§ 120 and/or 121 since a specification or in an Application Data Sheen received.	eet. c			
Attachmer	nt(s)							
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449) P			Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	•			

Serial Number: 09826973 Page 2

Art Unit: 3762

#### **DETAILED ACTION**

## Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-4, 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marcovecchio et al '951.

Marcovecchio et al show all of the claimed features except for a shockable present RR interval require that a ventricular sensing refractory period of the present RR interval be less than or equal to a first predetermined value.

Marcovecchio et al teach if the current RR interval is above a specified minimum value, the interval is considered shockable and the atrial defibrillation shock pulse is delivered. Further, to lessen the risk of inducing ventricular fibrillation, the atrial shock pulse should be delayed until the intrinsic ventricular rhythm is below a specified maximum rate and then the atrial shock should be synchronous with the sensed ventricular depolarization. Therefore, one of ordinary skill in the art would have found it obvious to shock when the ventricular sensing refractory period of the present RR interval is less than or equal to a first predetermined value.

Serial Number: 09826973 Page 3

Art Unit: 3762

### Allowable Subject Matter

2. Claims 5-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

- 3. Claims 11-20 are allowed.
- 4. The following is a statement of reasons for the indication of allowable subject matter: The features of the refractory period expiring after a first predetermined time value unless extended by the detection of ventricular noise during the refractory period, and triggering delivery of the atrial defibrillation shock upon expiration of the present RR interval timer and requiring the refractory period expire without being extended.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Rahul '524 teaches detecting a ventricular depolarization and checking to determine whether the ventricular refractory period has expired and if it has expired, deliver an atrial defibrillation or a crdioversion pulse.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (703) 308-2118. The examiner can normally be reached on Mon.- Fri., 9:00-5:00.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306 for regular communications and for After Final communications.

Serial Number: 09826973 Page 4

Art Unit: 3762

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

Primary Examiner
Art Unit: 3762
January 9, 2004